Moon Guitar

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01.

Modeling of Sound Board
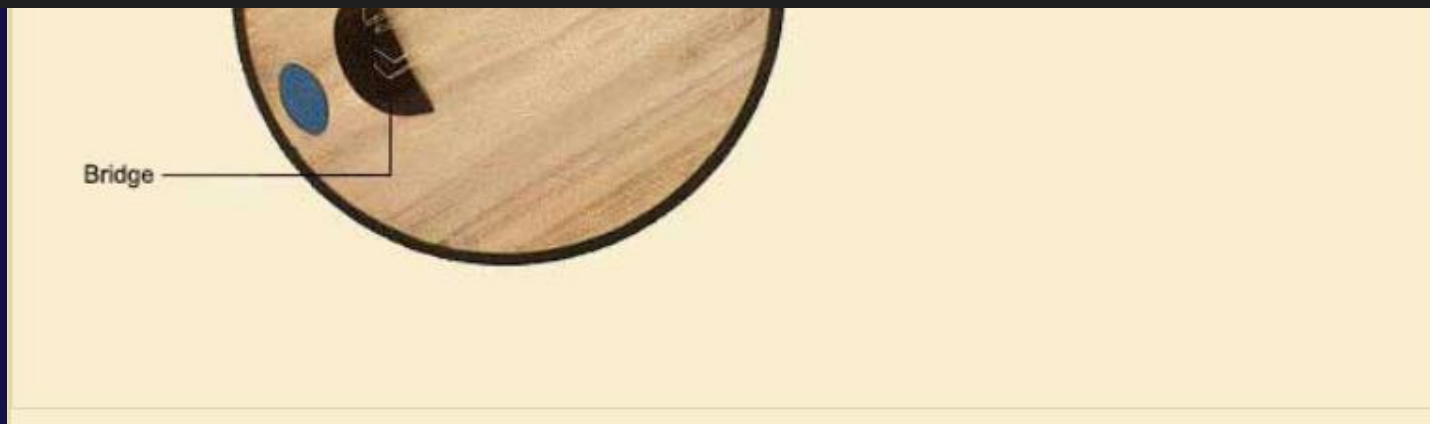
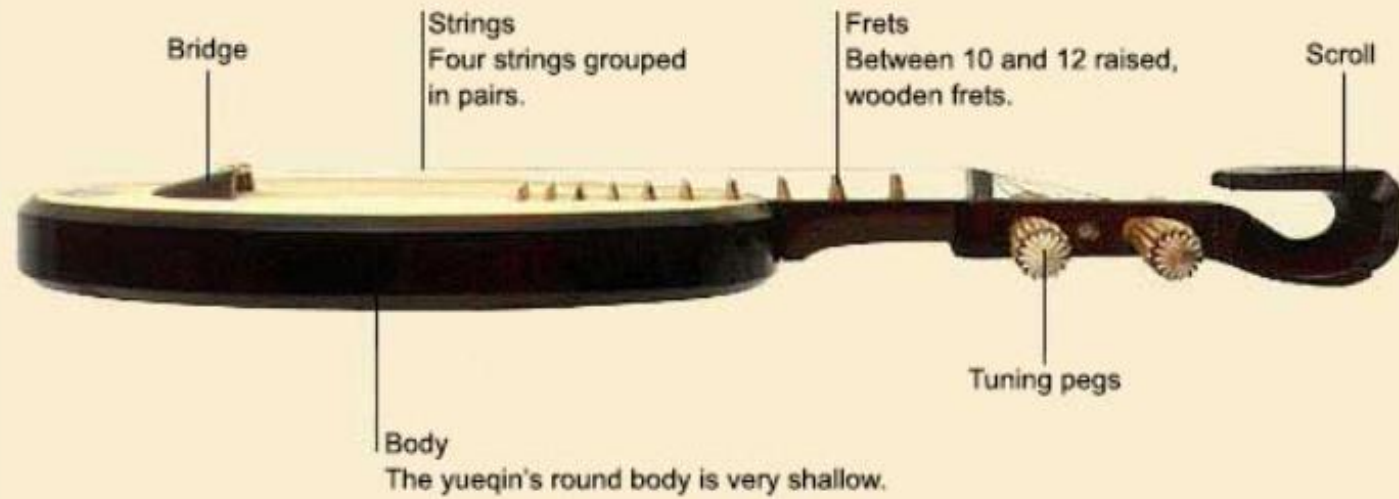# Body of Sound Board

Tuning pegs

| Body

Bridge

```
let radius = 20;
let thickness = 7.33 / 3;

let soundboard = cylinder({r: radius, h: thickness, center: true});
```

Bridge

Bridge

Strings
Four strings grouped in pairs.

Frets
Between 10 and 12 raised, wooden frets.

Scroll

Tuning pegs
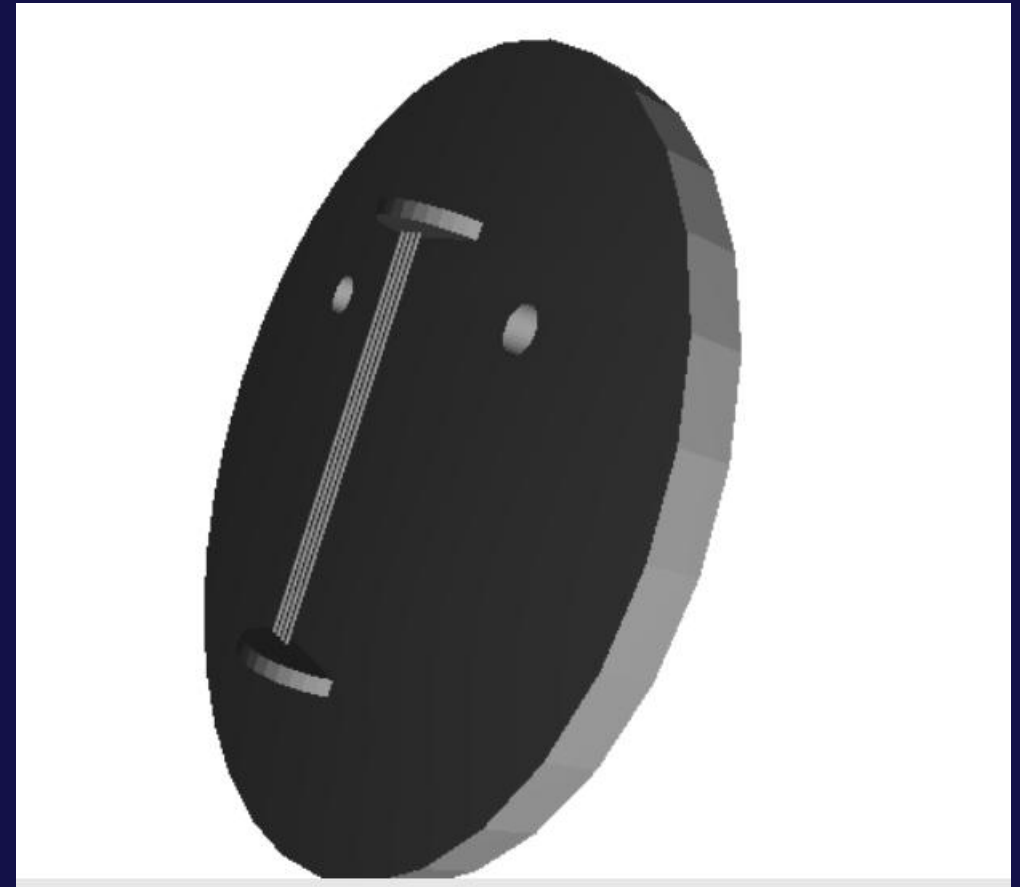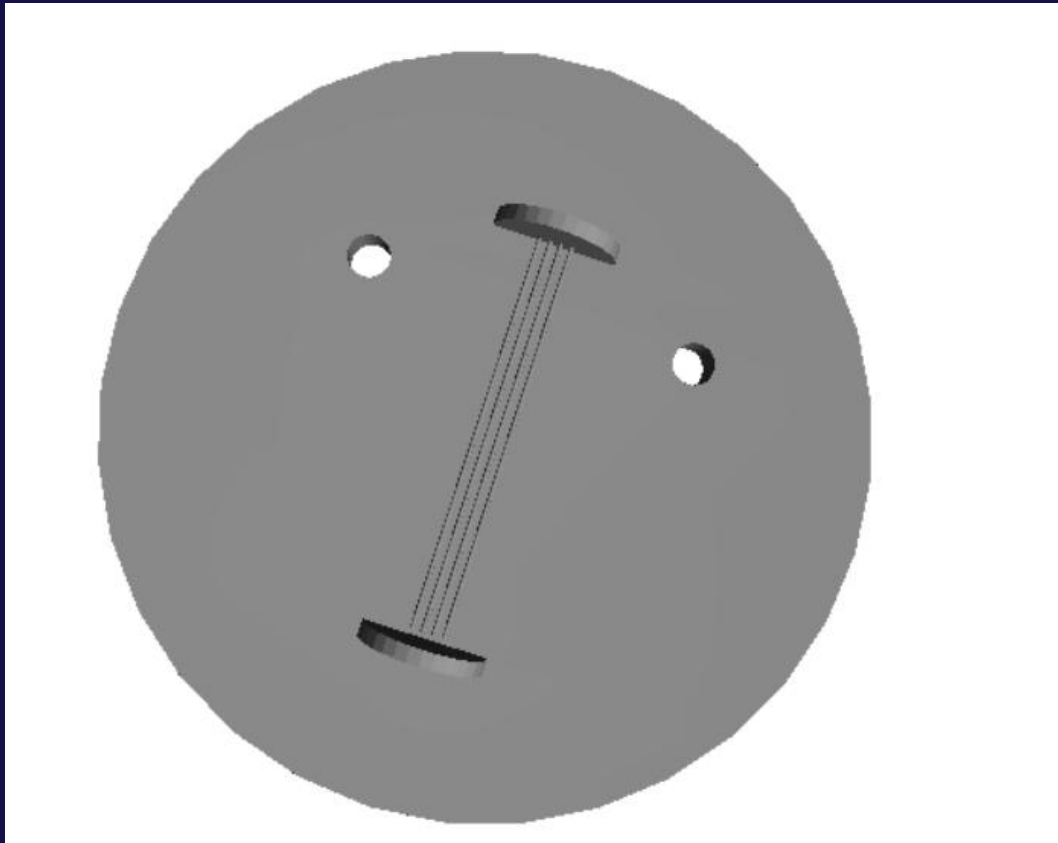
Body
The yueqin's round body is very shallow.

Sound Hole

Final result

02. Modeling of Neck
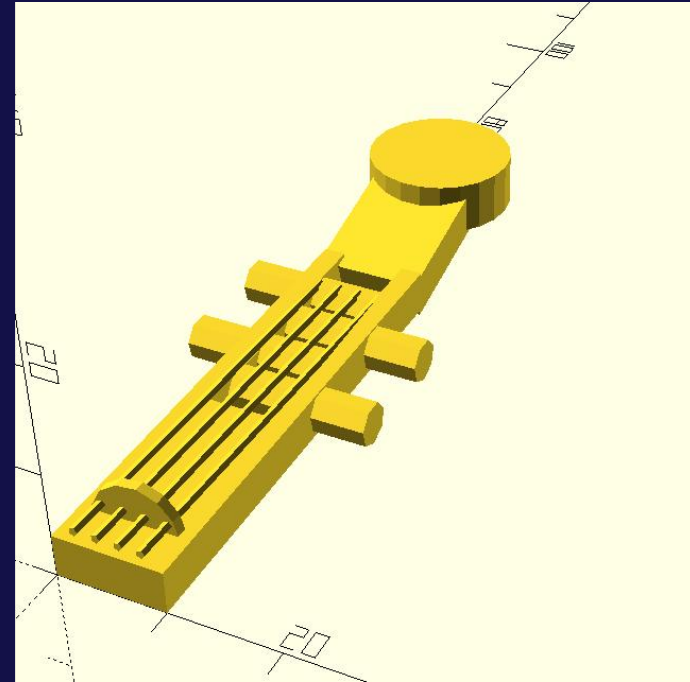
Tool and code

Code example:

```
rotate([88,0,0])
translate([-2,35,0]){
cylinder(h=15,r=2);}
```

Modeling— From neck to headstock

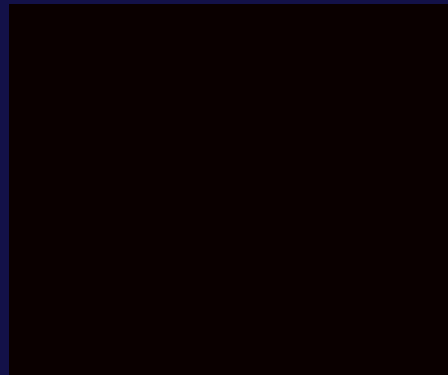Reference

Final version

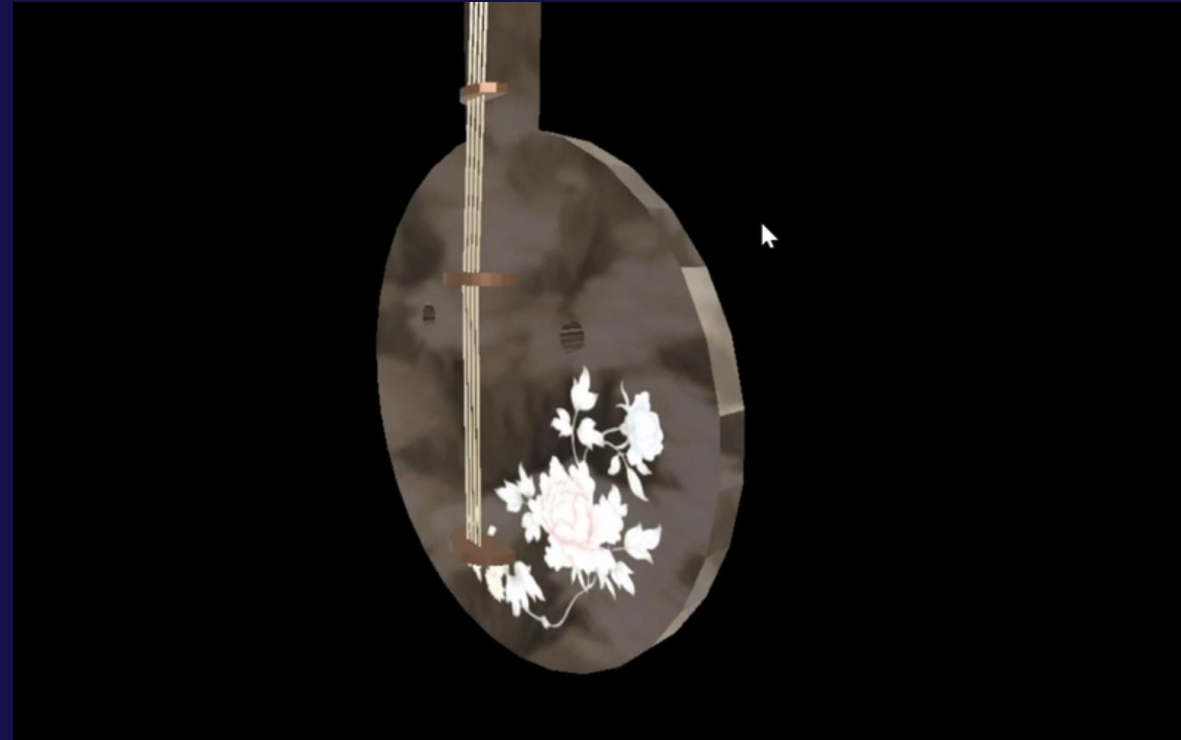03. Material
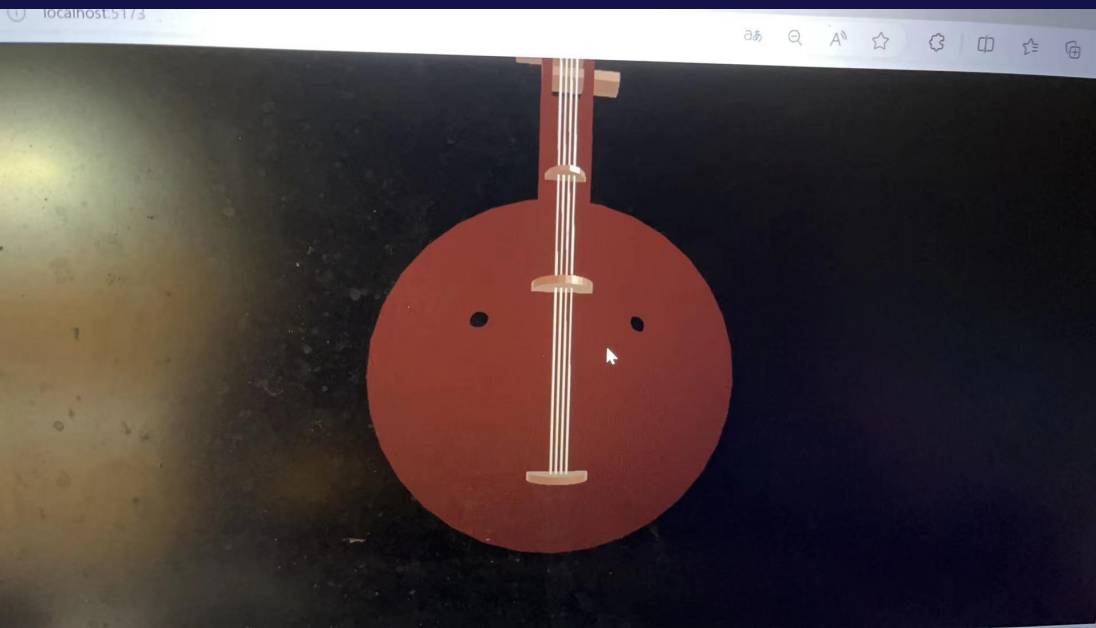
To draw the picture

Chinese lacquer I refers to

Color of the material can show the feature of moon guitar as a Chinese traditional entertainment.

I choose this color as the background color of the project

The result I get and the final project after disscussion

04. rendering

Material and Model Loading

Extra Texture

Website Server

Microsoft Windows [版本 10.0.17763.1]
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C:\Users\Administrator>cd /d D:

D:\>cd HW\FP\threejs

D:\HW\FP\threejs>npx vite

  VITE v5.4.0 ready in 189 ms

  ⊣ Local: http://localhost:5173/
  ⊣ Network: use --host to expose
  ⊣ press h + enter to show help

Microsoft Windows [版本 10.0.17763.1]
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C:\Users\Administrator>cd /d D:

D:\>cd HW\FP\threejs

D:\HW\FP\threejs>python serveit.py
Serving HTTP on :: port 8000 (http://[::]:8000/) ...

THANK YOU